

Meredith A. Kelly

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Education

Ph.D., Geological Sciences, University of Bern, Switzerland (April 2003)

Dissertation: *The late Würmian Age in the western Swiss Alps – last glacial maximum (LGM) ice-surface reconstruction and ¹⁰Be dating of late-glacial features*, Advisor: Dr. C. Schlüchter

M.S., Quaternary Studies, University of Maine, Orono ME (May 1999)

Master's Thesis: *Surficial deposits in western Victoria Valley: A record of paleoenvironments in southern Victoria Land, Antarctica, since middle-Miocene time*, Advisor: Dr. G.H. Denton

B.S., Geological Sciences and Environmental Studies, Tufts University, Medford MA (May 1995)

Senior Thesis: *The development of a radiocarbon chronology for late Wisconsinan deglaciation in the Merrimack Valley and a comparison with the existing chronology for the coast of Maine*, Advisor: Dr. J.C. Ridge

Publications in review

Applegate PJ, Urban NM, Keller K, Lowell TV, **Kelly MA**, Laabs BJC, accepted pending revisions. What can we learn from the statistical distribution of cosmogenic exposure dates on moraines?: *Quaternary Research*.

Publications

Criscitiello AS⁺, **Kelly MA**, Tremblay B, 2010. Glacier response to climate change: Juneau Icefield, Alaska: *Arctic, Antarctic and Alpine Research* 42, 34-44.

Goehring BM⁺, **Kelly MA**, Schaefer JM, Finkel RC, Lowell TV, 2010. Dating of raised marine and lacustrine deposits in east Greenland using beryllium-10 depth profiles and implications for estimates of subglacial erosion: *Journal of Quaternary Science*, doi: 10.1002/jqs.1380.

Osterberg EC, Smith AJ⁺, **Kelly MA**, 2010. Friends of the Pleistocene Fieldtrip – Lebanon-Hanover Area: *In* Hildreth CT, (Ed.), *Glaciation of the Connecticut River Valley – Hanover, Lebanon, Enfield, Cornish and Claremont, New Hampshire*, 102 p.

Sidall M, Kaplan MR, Schaefer JM, Putnam A., **Kelly MA**, Goehring BM, 2010. Changing influence of Antarctic and Greenland temperature records on sea level over the last glacial cycle: *Quaternary Science Reviews* 29, 410-423.

Palsea (PALeo SEA level working group), 2010. The sea-level conundrum: case studies from palaeo-archives. *Journal of Quaternary Science* 25, 19-25.

Kelly MA, Lowell TV, 2009. Fluctuations of local glaciers in Greenland during latest Pleistocene and Holocene time: *Quaternary Science Reviews* 28, 2088-2106.

Kelly MA, Long AJ, 2009. The dimensions of the Greenland Ice Sheet since the Last Glacial Maximum: *Pages – Past Global Changes Newsletter* 17/2, 60-61.

Kelly MA, Lowell TV, Hall BL, Schaefer JM, Denton GH, Alley RB, 2008. A ^{10}Be chronology of late-glacial and Holocene mountain glaciation in the Scoresby Sund region, east Greenland: Implications for seasonality during late-glacial time: *Quaternary Science Reviews* 27, 2273-2282.

Hall BL, Baroni C, Denton GH, **Kelly MA**, Lowell TV, 2008. Relative sea-level change, Kjove Land, Scoresby Sund, east Greenland: Implications for seasonality in late-glacial time: *Quaternary Science Reviews* 27, 2283-2291.

Lowell TV, **Kelly MA**, 2008. Was the Younger Dryas global?: *Science* 321, 348-349.

Kelly MA, Ivy-Ochs S, Kubik PW, von Blanckenburg F, Schlüchter C, 2006. Chronology of deglaciation based upon ^{10}Be dates of glacial erosional features in the Grimsel Pass region, central Swiss Alps: *Boreas* 35/4, 634-643.

Kelly MA, Kubik PW, von Blanckenburg F, Schlüchter C, 2004. Surface exposure dating of the Great Aletsch Glacier Egesen moraine system, western Swiss Alps, using the cosmogenic nuclide ^{10}Be : *Journal of Quaternary Science* 19/5, 431-441.

Kelly MA, Buoncristiani J-F, Schlüchter C, 2004. A reconstruction of the last glacial maximum (LGM) ice-surface geometry in the western Swiss Alps and contiguous Alpine regions in Italy and France: *Eclogae geologicae Helvetiae* 97, 57-75.

Kelly MA, Denton GH, Hall BL, 2002. Late Cenozoic paleoenvironment in southern Victoria Land, Antarctica, based on a polar form of glaciolacustrine drift in western Victoria Valley: *Geological Society of America Bulletin* 114/5, 605-618.

Preusser F, Schlüchter C, Drescher-Schneider R, Ivy-Ochs S, **Kelly M**, 2006. Comment on “First evidence of ‘in-situ’ Eemian sediments on the high plateau of Evian (Northern Alps, France): implications for the chronology of the Last Glaciation”: *Quaternary Science Reviews* 25, 645-647.

Ridge JC, Canwell BA, **Kelly MA**, Kelley SZ, 2001. An atmospheric ^{14}C chronology for late Wisconsinan deglaciation and sea-level change in eastern New England using varve and paleomagnetic records: in Weddle, T.K. and Retelle, M.J., eds., *Deglacial History and Relative Sea-Level Changes, Northern New England and Adjacent Canada*: Boulder, Colorado, Geological Society of America Special Paper 351, 171-189.

Hodum D, Henze T, **Kelly MA**, 2000. Bluff stability and hazard map, Bristol, Damariscotta, and Pemaquid Point Quadrangles, Maine Geological Survey Map, scale 1:24,000.

Schlüchter C, **Kelly M**, 2000. Das Eiszeitalter in der Schweiz: IGCP-378, Stiftung Landschaft und Kies, Uttigen, Switzerland.

[†]Denotes student advisee.

Grants

National Science Foundation (NSF) Sedimentary Geology and Paleobiology Program “*Collaborative Research: Testing the climate controls on the formation of tropical glacier moraines in the Rwenzori Mountains, Uganda-Congo*”; \$237,363; PI with J. Russell (Lead PI, Brown University). Pending – submitted January, 2011

National Science Foundation (NSF) Arctic Natural Sciences Program “*Collaborative Research: Response of the Northwest Greenland Cryosphere to Holocene*”; \$511,954; Co-PI with E. Osterberg (Lead PI, Dartmouth College), S. Birkel (Univ. Maine) and Y. Axford (Northwestern Univ.) Pending – submitted November, 2010

National Geographic Society (NGS) Committee for Research and Exploration Application “*Exploring the long-term history of African glaciers*”; \$20,000; (February 2011)

Comer Science and Education Foundation (CSEF) Abrupt Climate Change Grant “*Laurentide Ice Sheet deglaciation and meltwater routing based on ¹⁰Be dating*”; \$25,320; Co-PI with T. Lowell (Univ. Cincinnati) (January-December 2011)

NSF Paleo Perspectives on Climate Change Program “*Collaborative research: Testing mechanisms for Holocene climate change in the southern tropical and mid-latitude Andes*”; EAR-1003460, \$413,096; Lead PI with Y. Axford (Univ. Colorado), T. Lowell (Univ. Cincinnati) and R. Pierrehumbert (Univ. Chicago); (September 2010-August 2013)

NSF Arctic Natural Sciences Program “*Collaborative research: Sensitivity of local glaciers in central East Greenland to Holocene climate change*”; ARC-0909270, \$261,589; Lead PI with B. Hall (Univ. Maine) and T. Lowell (Univ. Cincinnati); (August 2009-July 2012)

CSEF Abrupt Climate Change Grant “*Reconstructing ice-ages in New Zealand, North America, and Greenland using cosmogenic Be-10 dating*”; \$300,000; Co-PI with J. Schaefer (Lamont-Doherty Earth Observatory); (November 2006)

CSEF Abrupt Climate Change Grant “*Support for an NSF-funded field trip to east Greenland*”; \$40,000 (July 2006)

CSEF Abrupt Climate Change Grant “*Timing and pattern of deglaciation of the southeastern margin of the Laurentide Ice Sheet – Meeting at Lamont, July 28, 2006*”; \$4,900 (June 2006)

NSF Office of Polar Programs, Postdoctoral Fellowship in Polar Regions Research “*Comparing paleotemperature reconstructions from Greenland moraines and ice cores: is there a major inconsistency between paleoclimate records?*”; ANT-0527946, \$180,794 (October 2005-September 2007)

Climate Center Grant, Lamont-Doherty Earth Observatory “*Precision dating and fixing of the equilibrium line altitude depression at the last glacial maximum along the Andes/Amazon interface*”; \$5,800 (June 2005)

CSEF Abrupt Climate Change Grant “*Extent and timing of late-glacial and Holocene paleoglaciations near the Cordillera Vilcanota and Quelccaya Ice Cap*”; \$4,000 (June 2005)

Climate Center Grant, Lamont-Doherty Earth Observatory “*Equilibrium line altitudes of late-glacial ice extents near the Cordillera Vilcanota and Quelccaya Ice Cap, Peru*”; \$4,150 (March 2005)

Sigma Xi, The Scientific Research Society, Grants-in-Aid of Research; \$500 (January 2001)

Professional Positions

January 2009-present:

Assistant Professor, Department of Earth Sciences, Dartmouth College, Hanover NH
Adjunct Research Scientist, Lamont-Doherty Earth Observatory of Columbia University, Palisades NY

October 2007-December 2008:

Doherty Associate Research Scientist, Lamont-Doherty Earth Observatory of Columbia University, Palisades NY

June 2004-September 2007:

Postdoctoral Research Fellow, Comer Abrupt Climate Change Fellowship, Lamont-Doherty Earth Observatory of Columbia University, Palisades NY

May 2003-May 2004:

University Postdoctoral Fellow, Byrd Polar Research Center, The Ohio State University, Columbus OH

September 1997-May 1998:

Graduate Research Assistant: University of Maine, Orono ME

Summer 1997:

Field Geologist, Bluff stability and hazard mapping project, Maine Geological Survey, Augusta ME

Teaching Experience

2009- present: *Assistant Professor*, Dartmouth College, Hanover NH

EARS 1: Introduction to Earth Sciences (Spring 2009, Fall 2009, 2010)
EARS 45-47: Earth Sciences Off-Campus Program, Bighorn Basin, WY (Fall 2009, 2010)
EARS 15: Earth's Climate: Past, Present and Future (Winter 2010)
EARS 203: Advanced Earth Surface Processes (Spring 2010; with R. Hawley)
Dartmouth IGERT: Greenland Field Seminar (Summer 2010; with R. Virginia and M. Ayres)
(Guest lectures) BIO 138.01: IGERT graduate course (Fall 2009, 2010)

2006: *Instructor*, Columbia University, New York NY
Graduate Seminar on Glaciers (Fall 2006; with W. Broecker)

2004: *Guest Lecturer*, The Ohio State University, Columbus OH
Paleoclimatology and Geochemistry courses

1999-2003: *Teaching Assistant*, University of Bern, Switzerland
Quaternary Geology, Quaternary Stratigraphy and Engineering Geology courses
Glacial Geology of New Zealand (Three-week field course)
Aletsch Glacier field trip (Swiss Polar Summer School)
Geological Excursion to Flüelapass (Goldschmidt Conference)
Alpine Glacial Geology Excursion (DEUQUA Meeting)

1998-1999: *Teaching Assistant*, Geology Department, University of Maine, Orono ME
Introductory and Environmental Geology courses

1996: *Teacher*, Mountain School, North Cascades Institute, Sedro-Woolley WA
Outdoor education for public school fourth-grade classes in North Cascades National Park

1993-1995: *Teaching Assistant*, Department of Geology, Tufts University, Medford MA
Introductory and Environmental Geology courses

Mentoring

2009-present: *Advisor*, Dartmouth College, Hanover NH
Graduate students - S. Beal, L. Levy, J. Stroup (PhD); T. Baker (Master's) Undergraduate
students - F. Ling, H. Kim (Presidential Scholar), L. Reynolds, A. Smith (Senior Honors
Thesis)

Committee Member, Dartmouth College, Hanover NH
J. Bailard (PhD); R. Neurath, M. Siegfried, L. Zummo (MSc)

2005-2008: *Advisor*, Columbia University, New York NY
Graduate students - B. Goehring (PhD, co-advisor), A. Criscitiello (MSc, co-advisor); Barnard
College undergraduate students - M. McCabe, R. Steinberg (Lamont Summer Interns);
Mamaroneck High School student – M. Ionia (Independent study)

Academic Services

- Ongoing: *Faculty Associate*, Dartmouth IGERT Program “Polar Environmental Change”; *Contributor*, CRONUS-Earth (NSF-funded collaborative effort investigating principles of terrestrial cosmogenic-nuclide physics) and *Participant*, CRONUS-Earth workshops (2006, 2007, 2008, 2009, 2010); *Reviewer*, Journals (*Nature*, *Earth and Planetary Science Letters*, *Earth Science Reviews*, *Geomorphology*, *Journal of Quaternary Science*, *Quaternary Research*, *Quaternary International*, *Global Planetary Change*, *Climate of the Past*, *Journal of Geophysical Research*, *Geology*) and NSF (Arctic Natural Sciences and Paleoclimate Programs); *Member*, American Geophysical Union (AGU), Geological Society of America (GSA), Sigma Xi, Association of Women in Sciences (AWIS).
- 2010: *Panel Member*, NSF Proposal Review Panel; *Organizer/Leader*, Friends of the Pleistocene meeting in Hanover, NH (June 4-6; with Andrew Smith '10 and E. Osterberg); *Search Committee Member*, Joseph P. Obering Postdoctoral Fellow, Dartmouth College Department of Earth Sciences.
- 2009: *Participant*, Glacier, Climate and Society meeting at Lamont-Doherty Earth Observatory; *Convener*, AGU Fall Meeting 2009 session “Deglaciation of the Northern Hemisphere: Timings and Forcings I – Posters.”
- 2008: *Convener*, AGU Fall Meeting 2008 session “Progress in Quaternary dating methods in the Polar Regions” and Northeast Geological Society of America meeting 2008 session: “Meltwater drainage”; *Participant*, Comer Abrupt Climate Change meeting.
- 2007: *Convener*, AGU Fall Meeting 2007 session “Climate change in Greenland: past and present”; *Presenter*, “Climate change in Greenland Lecture”, Lamont-Doherty Earth Observatory Public Lecture Series; *Participant*, Comer Abrupt Climate Change meeting; *Organizer*, Lamont cosmogenic nuclide group presentation at the Lamont-Doherty Earth Observatory Open House.
- 2006: *Participant*, Comer Abrupt Climate Change Roundtable; *Organizer*, Lamont cosmogenic nuclide group presentation and *Presenter*, “The New York Ice Age Lecture” at the Lamont-Doherty Earth Observatory Open House; *Organizer* Laurentide Ice Sheet meeting at Lamont-Doherty Earth Observatory.
- Prior to 2006: *Participant*, Comer Abrupt Climate Change Roundtable (2004); *Organizer*, Byrd Polar Research Center seminar series, The Ohio State University (2004); *Assistant*, Quaternary Environments of the Eurasian North meeting (2002) and DEUQUA, German-speaking Quaternary association, meeting (2000); *Editor*, field trip guidebook (Kelly M, Linden U, Schlüchter C., 2000; *DEUQUA 2000 - Eiszeitalter & Alltag Exkursionsführer*: University of Bern, Switzerland, 172 pp.)

Field Experience

East Greenland – Research field trips to the Scoresby Sund region (2004, 2005, 2006, 2010).

West Greenland – IGERT field trip to Kangerlussuaq area (2009, 2010).

Peruvian Andes – Research field trips to Quelccaya Ice Cap (2006, 2008, 2009); Ice-core drilling expedition to Quelccaya and Coropuna Ice Caps led by L.G. Thompson (2003).

North America – Dartmouth Earth Sciences Stretch program – Bighorn Basin Segment, WY (2009, 2010); Research field trips to Montana, North Dakota, Alberta (2007), Northern Ontario (2006), Lower Hudson Valley, NY (2005, 2006); Juneau Icefield Research Program, AK (1997); Rocky Mountain Field Geology Course, Indiana University (1995).

European Alps – Dissertation field research in western Alps (1999-2003).

South Island, New Zealand – University of Bern Quaternary geology field course (2001); Assistant for G.H. Denton field team (1998).

McMurdo Dry Valleys, Antarctica – Master’s thesis research in remote field camp (1997-1998).

Botswana – Ecology and Environmental Studies Program, School for International Training (1993).

Foreign Language

German – fluent spoken and written.

Invited Talks

2010: CRONUS-Earth Annual meeting in Berkeley, CA (December); Department of the Geophysical Sciences Seminar, University of Chicago (November); Herzog Lecture, Oakwood School, Poughkeepsie, NY (April).

2009: Climate, Glaciers and Society meeting at Lamont-Doherty Earth Observatory (November); Department of Geology Seminar, University of Vermont (November); Department of Earth Sciences Colloquium, Brown University (October); CRONUS-Earth Annual meeting in Portland, OR (October); Department of Earth Sciences Seminar, Dartmouth College (January)

2008: Department of Geological Science Colloquium, University of Maine, Orono (November); Empirical constraints on future sea-level rise workshop in Bern, Switzerland (August); AMQUA 2008 meeting in State College, Pennsylvania (June); “Science Today” Colloquium, State University of New York, Oswego (April)

Prior to 2008: Department of Geology Colloquium, University of Cincinnati (May 2007); Department of Earth and Environmental Studies Seminar, Montclair State University (April 2006); Swiss Geoscience Conference in Lausanne, Switzerland (November 2004)

Conference Presentations

Kelly MA, Lowell TV, Hall BL, Schaefer JM, 2010. A comparison of late glacial to early Holocene fluctuations of Greenland Ice Sheet outlet glaciers with nearby mountain glaciers in central east

Greenland. *AGU Fall Meeting*, Abstract#C41B-07.

Beal SA⁺, **Kelly MA**, Jackson BP, Osterberg EC, Stroup JS, Baker RA, 2010. A late Holocene record of trace metal deposition in lake sediments near Quelccaya Ice Cap, Peru. *AGU Fall Meeting*, Abstract#GC21A-0856.

Honsacker W, Lowell TV, Sagredo E, **Kelly MA**, Hall BL, 2010. Polar ice caps: a canary for the Greenland Ice Sheet. *AGU Fall Meeting*, Abstract#C23B-0613.

Levy LB⁺, **Kelly MA**, Lowell TV, 2010. Late glacial and early Holocene climatic conditions along the margin of the Greenland Ice Sheet, registered by glacial extents in Milne Land, east Greenland. *AGU Fall Meeting*, Abstract#C23-B-0610.

Lowell TV, **Kelly MA**, Applegate PJ, Phillips FM, Hudson AM, 2010. Timing of expansions of the Quelccaya Ice Cap, Peru, and implications for cosmogenic nuclide production rate calibration. *AGU Fall Meeting*, Abstract#EP32A-05.

Stroup JS⁺, **Kelly MA**, Lowell TV, 2010. Correlating ice cores from Quelccaya Ice Cap with chronology from Little Ice Age glacial extents. *AGU Fall Meeting*, Abstract#GC23H-08.

Kelly MA, Fisher TG, Lowell TV, Barnett P, Schaefer JM, Schwartz R, 2009. ¹⁰Be ages of glacial and meltwater features northwest of Lake Superior: a chronology of Laurentide Ice sheet deglaciation and eastward flooding from Glacial Lake Agassiz. *AGU Fall Meeting*, Abstract #PP21A-1329.

Applegate PJ, Urban N, **Kelly MA**, Lowell TV, Alley RB, 2009. Inferring moraine age and depth of glacial erosion from cosmogenic exposure dates using geomorphic process modeling: *EGU General Assembly*, Abstract #EGU2009-5901.

Applegate PJ, Urban N, **Kelly MA**, Lowell TV, Laabs BJ, Alley RB, 2009. Unifying cosmogenic exposure dating and cosmogenic geomorphology with process modeling: *Northeast GSA meeting*, Abstract #17-6.

Lowell TV, **Kelly MA**, 2009. Deglaciation Chronology of the Southern Sector of the Laurentide Ice Sheet (Invited). *AGU Fall Meeting*, Abstract #PP24A-01.

Lowell TV, Applegate PJ, **Kelly MA**, 2009. Lessons learned from a recycled landscape: boulder ages in east Greenland. *Northeast GSA meeting*, Abstract #25-9.

Stroup JS⁺, **Kelly MA**, Lowell TV, 2009. Little Ice Age Fluctuations of Quelccaya Ice Cap, Peru. *AGU Fall Meeting*, Abstract #PP31A-1300.

Virginia RA, Holm K, Whitecloud S, Levy LL⁺, **Kelly MA**, Feng X, Grenoble L, 2009. Interdisciplinary Graduate Training in Polar Environmental Change: Field-based learning in Greenland. *AGU Fall Meeting*, Abstract #GC51A-0724.

Kelly MA, Lowell TV, Schaefer JM, Finkel RC, 2008. Late-glacial and Holocene history of changes

in Quelccaya Ice Cap, Peru: *AGU Fall Meeting*, Abstract #GC12A-03.

Kelly MA, Fisher TG, Lowell TV, Barnett PJ, Schwartz R, 2008. ^{10}Be dates of flood deposits west of Lake Nipigon: Evidence for an early Holocene meltwater event. *Northeast GSA meeting*, Abstract #4-7.

Applegate PJ, **Kelly MA**, Lowell TV, Alley RB, 2008. Boulder Recycling, Moraine Degradation, and Their Effects on Cosmogenic Exposure Dating of Moraines: *AGU Fall Meeting*, Abstract #PP51A-1477.

Lowell TV, **Kelly MA**, Hall B, Denton GH, 2008. Recent Expansion and Retreat of Independent Glaciers in Greenland: *AGU Fall Meeting*, Abstract #C41B-0521.

Kelly MA, Lowell TV, Schaefer JM, 2007. A comparison of late Pleistocene and Holocene glacier fluctuations in high and low latitudes based on ^{10}Be and ^{14}C dates of moraines in Greenland and Peru. *XVII INQUA Congress, Quaternary International*, 167-168, 203.

Goehring BM⁺, Schaefer JM, **Kelly MA**, 2007. Constraining glacial chronologies using beryllium-10 depth profiles: *AGU Fall Meeting*, Abstract #PP33B-1273.

Hall B, Baroni C, Denton G, **Kelly M**, Lowell T, 2007. Late-glacial and Holocene relative sea-level change, Scoresby Sund, East Greenland: *AGU Fall Meeting*, Abstract #C11A-0070.

Lowell TV, **Kelly MA**, Hall B, Smith CA, Garhart K, Travis S, Denton GH, 2007. Organic remains from the Istorvet Ice Cap, Liverpool Land, East Greenland: A record of Late Holocene climate change: *AGU Fall Meeting*, Abstract #C13A-04.

Kelly MA, Lowell TV, Schaefer JM, Schwartz R, Migro P, Denton GH, Alley RB, 2006. ^{10}Be dates of moraines in east Greenland suggest that the Little Ice Age mountain glacier advance was the most extensive glacial advance during the Holocene Epoch: *Annual Meeting GSA Abstracts with Programs*, 38/7, 265.

McCabe M⁺, **Kelly MA**, Schaefer JM, Schwartz R, Hanson GN, Benimoff AI, 2006. Dating glacial features in New York's lower Hudson Valley: The last deglaciation of the Eastern Laurentide Ice Sheet: *Annual Meeting GSA Abstracts with Programs*, 38/7, 72.

Kelly MA, Lowell TV, Hall BH, Schaefer JM, Denton GH, Broecker WS, 2005. A chronology of mountain glaciation and associated paleotemperature records from the Scoresby Sund region, east Greenland: *Annual Meeting GSA Abstracts with Programs*, 37/7, 40.

Steinberg R⁺, **Kelly M**, Schaefer J, Schwartz R, Rinterknecht V, Balco G, 2005. Measuring the retreat velocity of the Laurentide Ice Sheet by cosmogenic nuclides: ^{10}Be dating of glacial features in New York's lower Hudson Valley: *Eos Transactions AGU*, 86/47, Fall Meeting Supplement, Abstract #U33A-0007.

Kelly MA, Thompson LG, 2004. ^{10}Be dating of late-glacial moraines near the Cordillera Vilcanota and

the Quelccaya Ice Cap, Peru: *Eos Transactions AGU*, 85/47, Fall Meeting Supplement, Abstract #PP23A-1388.

Kelly MA, von Blanckenburg F, Kubik PW, Schlüchter C, 2002. Surface exposure ages of high elevation glacial erosion forms: an attempt to date deglaciation of the LGM ice cap in the western Swiss Alps: *Geochimica et Cosmochimica Acta, Abstracts of the 12th Annual V.M. Goldschmidt Conference*, A392.

Kelly MA, Kubik PW, von Blanckenburg F, Schlüchter C, 2002. Reconstruction and surface exposure dating of the Last Glacial Maximum ice cap in the western Swiss Alps: *DEUQUA Tagung, Terra Nostra*, 6, 159-164.

Kelly MA, Schlüchter C, 2001. A reconstruction of the Last Glacial Maximum ice cap in the western Alps and its paleocirculation significance: *Eos Transactions AGU*, 82/47, Fall Meeting Supplement, Abstract IP11A-0658.

Kelly MA, Schlüchter C, 2001. Reconstructing the Last Glacial Maximum ice cap in the western Alps: *Past Climate Variability through Europe and Africa, PAGES – PEPIII Conference*, 102-103.

Kelly MA, Schlüchter C, 2001. The surface configuration of the Last Glacial Maximum ice cap in the western Alps and its paleoclimate significance: *Achieving climate predictability using paleoclimate data, EURESCO Conference*.

Kelly MA, 2000. Reconstructing the surface elevation and ice-flow configuration of the Last Glacial Maximum (LGM) ice cap in the western Alps: *DEUQUA Tagung, Eiszeitalter und Alltag*.

Kelly MA, 1998. Surficial deposits in upper Victoria Valley, Transantarctic Mountains: A record of glacial environments since the mid-Miocene: *Annual Meeting GSA Abstracts with Programs*, 30/7, 387.

Ridge JC, Canwell BA, Callahan JW, Cook GJ, Nicholson RS, Toll NJ, **Kelly MA**, 1998. Varve, paleomagnetic, and radiocarbon chronologies for the deglaciation of northern New England: *Northeastern Section GSA Abstracts with Programs*, 30/1, 70.

Ridge JC, **Kelly MA**, Pendelton R, 1995. Radiocarbon calibration of New England varves and paleomagnetic declination records: A new deglaciation chronology for western New England to central New York: *Northeastern Section GSA Abstracts with Programs*, 27/1, 78.

[†]Denotes student advisee.